



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**D117-1044-011**  
**Job Sheet 170684**



Part No: D117-1044-011

Job Qty: 1 ea

Part Name: Heli-Utility-Basket™, LH



Part Weight: 0 lbs

Status: Scheduled

Priority: High

Job Created: 1/18/18

Job Tracking No:

Due Date: 1/23/18

Created By: Mario Poulin

Type: SOLD

Description:

Note: IIN-D117-1044 REV.B IPP REV:A 18.01.17 NEW ISSUE DD VERF:JFS

Ship Via:

8000198

### Bill of Materials

### Job Routing

| Op No | Operation          | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|--------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |                    |       |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 90    | Start up Operation | 1 Ea  |            | 1/23/18  | 0.00      | 0.00    | Start Up Stores/Pkg-1 |           | SmB      |
| 110   | Packaging          | 1 pcs |            | 1/23/18  | 0.00      | 0.00    | Packaging1-1          |           | SmB      |
| 130   | QC                 | 1 pcs |            | 1/23/18  | 0.00      | 0.00    | QC4                   |           | 7/10     |
| 135   | DC                 | 1 pcs |            | 1/23/18  | 0.00      | 0.00    | DC                    |           | 7/10     |
| 140   | Packaging          | 1 pcs |            | 1/23/18  | 0.00      | 0.00    | Packaging3-1          |           | 7/10     |
| 150   | QC21-FG            | 1 Ea  |            | 1/23/18  | 0.00      | 0.00    | QC21                  |           | 7/10     |

Part Op 135 - Photocopy bluefile & type labels per PPP D117-1044-011 CHG 001

Descriptions: 140 - Identify and pack for shipping as per PPP D117-1044-011 Location: Eg

PPP Rev: Sold

JAN 31 2016

### Job BOM

| Part / Item            | Component Name                                | Quantity    | Operation             | Container |
|------------------------|-----------------------------------------------|-------------|-----------------------|-----------|
| D117-1044-113-Rework ✓ | QR Basket Provision Mounting Installation, LH | 1 Ea (1 ea) | 90-Start up Operation | 5036518   |
| D5067-011-Rework ✓     | Basket Assembly, Heavy Duty Lid, LH           | 1 Ea (1 ea) | 90-Start up Operation | 5034693   |
| D5203-043              | Strut Assembly                                | 1 Ea (1 ea) | 90-Start up Operation | 5033273   |

### Part Specifications

Specifications could not be found.

Plex 1/18/18 12:57 PM dart.poulin.mario

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube <input type="checkbox"/></td> <td style="border: none;">Cross tube <input type="checkbox"/></td> <td style="border: none;">Water Jet <input type="checkbox"/></td> <td style="border: none;">Engineering <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Machining <input type="checkbox"/></td> <td style="border: none;">Small Fab <input type="checkbox"/></td> <td style="border: none;">Prod. Eng. Coord. <input type="checkbox"/></td> <td style="border: none;">Quality <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Thermoforming <input type="checkbox"/></td> <td style="border: none;">Finishing <input type="checkbox"/></td> <td style="border: none;">Rec/Store/Packaging <input type="checkbox"/></td> <td style="border: none;">Other <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Large Fab <input type="checkbox"/></td> <td style="border: none;">Composite <input type="checkbox"/></td> <td style="border: none;">Supplier <input type="checkbox"/></td> <td></td> </tr> </table> |                                             |                                                                                                                                                                                                                                                                                                                                      |                                               | Skid-tube <input type="checkbox"/>             | Cross tube <input type="checkbox"/>        | Water Jet <input type="checkbox"/>       | Engineering <input type="checkbox"/>        | Machining <input type="checkbox"/>          | Small Fab <input type="checkbox"/>             | Prod. Eng. Coord. <input type="checkbox"/>     | Quality <input type="checkbox"/>            | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/>    | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/>    | Large Fab <input type="checkbox"/>        | Composite <input type="checkbox"/>              | Supplier <input type="checkbox"/>            |                                             |                                           |                                                          |                                        |                                                |                                                |                                             |                                     |                                              |                                                |                                                |                                                |                                        |                                   |                                  |
| Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Machining <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Small Fab <input type="checkbox"/>                                                                                                                                                 | Prod. 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Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quality <input type="checkbox"/>            |                                                                                                                                                                                                                                                                                                                                      |                                               |                                                |                                            |                                          |                                             |                                             |                                                |                                                |                                             |                                        |                                       |                                              |                                   |                                           |                                                 |                                              |                                             |                                           |                                                          |                                        |                                                |                                                |                                             |                                     |                                              |                                                |                                                |                                                |                                        |                                   |                                  |
| Thermoforming <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Large Fab <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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         |                                        |                                   |                                  |
| Description Work Order No. : _____<br><br><div style="text-align: center;"> <br/> <b>S036635</b><br/> <br/> <b>Heli - Utility - Basket , LH</b> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             | <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>Dart Aerospace Ltd.</b><br/>           1270 Aberdeen Street<br/>           Hawkesbury, ON K6A 1K7<br/>           CANADA<br/>           TEL.: 1 613 632-5200<br/>           Email: sales@dartaero.com<br/>           www.dartaerospace.com         </div> |                                               |                                                |                                            |                                          |                                             |                                             |                                                |                                                |                                             |                                        |                                       |                                              |                                   |                                           |                                                 |                                              |                                             |                                           |                                                          |                                        |                                                |                                                |                                             |                                     |                                              |                                                |                                                |                                                |                                        |                                   |                                  |
| <div style="text-align: center;"> <b>PART NO: D117-1044-011</b><br/> <b>Original Serial #: S036635</b><br/> <b>Revision: CHG001</b><br/> <b>Operation: Start up Operation 01/29/18</b><br/> <b>Change No: Job No: 170684</b> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <table style="width:100%; border: none;"> <tr> <td style="width:15%;"><b>Root Cause</b></td> <td style="width:15%;"><input type="checkbox"/> Environment</td> <td style="width:15%;"><input type="checkbox"/> No Re-verf</td> <td style="width:15%;"><input type="checkbox"/> Design</td> <td style="width:15%;"><input type="checkbox"/> Operator</td> <td style="width:15%;"><input type="checkbox"/> Doc/Data</td> <td style="width:15%;"><input type="checkbox"/> Offset/Setu</td> <td style="width:15%;"><input type="checkbox"/> Equip/Tooling</td> <td style="width:15%;"><input type="checkbox"/> Supplier</td> <td style="width:15%;"><input type="checkbox"/> Handling/Pre</td> <td style="width:15%;"><input type="checkbox"/> Training</td> <td style="width:15%;"><input type="checkbox"/> Material</td> <td style="width:15%;"><input type="checkbox"/> Use for Testin</td> <td style="width:15%;"><input type="checkbox"/> Internal Transport</td> <td style="width:15%;"><input type="checkbox"/> Poor Informat</td> <td style="width:15%;"><input type="checkbox"/> Crushing</td> <td style="width:15%;"><input type="checkbox"/> Tribal Knowledge</td> <td style="width:15%;"><input type="checkbox"/> Rushing</td> <td style="width:15%;"><input type="checkbox"/> Heat Treat</td> <td style="width:15%;"><input type="checkbox"/> LOA</td> <td style="width:15%;"><input type="checkbox"/> Product Improvement</td> <td style="width:15%;"><input type="checkbox"/> Wave/Twist in Tube</td> <td style="width:15%;"><input type="checkbox"/> Substation</td> <td style="width:15%;"><input type="checkbox"/> Process Improvement</td> <td style="width:15%;"><input type="checkbox"/> Marks/Chatter</td> <td style="width:15%;"><input type="checkbox"/> Past Expiry Date</td> <td style="width:15%;"><input type="checkbox"/> Manufacturing Process</td> <td style="width:15%;"><input type="checkbox"/> Misidentified</td> <td style="width:15%;"><input type="checkbox"/> Past Due</td> <td style="width:15%;"><input type="checkbox"/> OTHER :</td> </tr> </table> |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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Manufacturing Process | <input type="checkbox"/> Misidentified | <input type="checkbox"/> Past Due | <input type="checkbox"/> OTHER : |
| <b>Root Cause</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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<input type="checkbox"/> Material              | <input type="checkbox"/> Use for Testin        | <input type="checkbox"/> Internal Transport | <input type="checkbox"/> Poor Informat | <input type="checkbox"/> Crushing     | <input type="checkbox"/> Tribal Knowledge    | <input type="checkbox"/> Rushing  | <input type="checkbox"/> Heat Treat       | <input type="checkbox"/> LOA                    | <input type="checkbox"/> Product Improvement | <input type="checkbox"/> Wave/Twist in Tube | <input type="checkbox"/> Substation       | <input type="checkbox"/> Process Improvement             | <input type="checkbox"/> Marks/Chatter | <input type="checkbox"/> Past Expiry Date      | <input type="checkbox"/> Manufacturing Process | <input type="checkbox"/> Misidentified      | <input type="checkbox"/> Past Due   | <input type="checkbox"/> OTHER :             |                                                |                                                |                                                |                                        |                                   |                                  |
| <table style="width:100%; border: none;"> <tr> <td style="width:15%;"><input type="checkbox"/> Surge</td> <td style="width:15%;"><input type="checkbox"/> Positioned Wrong</td> <td style="width:15%;"><input type="checkbox"/> Weld</td> <td style="width:15%;"><input type="checkbox"/> Wrong Stock Pulled</td> <td style="width:15%;"><input type="checkbox"/> Outside Dimensions</td> <td style="width:15%;"><input type="checkbox"/> Over/Under tolerance</td> <td style="width:15%;"><input type="checkbox"/> Part Incorrect</td> <td style="width:15%;"><input type="checkbox"/> Part Lost/Missing</td> <td style="width:15%;"><input type="checkbox"/> Part Moved</td> <td style="width:15%;"><input type="checkbox"/> Drawing</td> <td style="width:15%;"><input type="checkbox"/> Finish</td> <td style="width:15%;"><input type="checkbox"/> Misread</td> <td style="width:15%;"><input type="checkbox"/> Turning Sequence</td> </tr> <tr> <td style="width:15%;"><input type="checkbox"/> Incomplete/Unqualified</td> <td style="width:15%;"><input type="checkbox"/> Contamination</td> <td style="width:15%;"><input type="checkbox"/> Countersink</td> <td style="width:15%;"><input type="checkbox"/> Cut Too Short</td> <td style="width:15%;"><input type="checkbox"/> Instructions Incomplete/Unclear</td> <td style="width:15%;"><input type="checkbox"/> Drill Holes</td> <td style="width:15%;"><input type="checkbox"/> Misaligned/off center</td> <td style="width:15%;"><input type="checkbox"/> Off-set</td> <td style="width:15%;"><input type="checkbox"/> Out of Sequence</td> <td style="width:15%;"><input type="checkbox"/> Mislabeled</td> <td style="width:15%;"><input type="checkbox"/> Fit/Function</td> <td style="width:15%;"><input type="checkbox"/> Misaligned/off center</td> <td style="width:15%;"><input type="checkbox"/> Misaligned/off center</td> </tr> </table>                                                                                                                                                             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<input type="checkbox"/> Over/Under tolerance  | <input type="checkbox"/> Part Incorrect        | <input type="checkbox"/> Part Lost/Missing  | <input type="checkbox"/> Part Moved    | <input type="checkbox"/> Drawing      | <input type="checkbox"/> Finish              | <input type="checkbox"/> Misread  | <input type="checkbox"/> Turning Sequence | <input type="checkbox"/> Incomplete/Unqualified | <input type="checkbox"/> Contamination       | <input type="checkbox"/> Countersink        | <input type="checkbox"/> Cut Too Short    | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Drill Holes   | <input type="checkbox"/> Misaligned/off center | <input type="checkbox"/> Off-set               | <input type="checkbox"/> Out of Sequence    | <input type="checkbox"/> Mislabeled | <input type="checkbox"/> Fit/Function        | <input type="checkbox"/> Misaligned/off center | <input type="checkbox"/> Misaligned/off center |                                    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| <input type="checkbox"/> Surge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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<input type="checkbox"/> Misread               | <input type="checkbox"/> Turning Sequence      |                                             |                                        |                                       |                                              |                                   |                                           |                                                 |                                              |                                             |                                           |                                                          |                                        |                                                |                                                |                                             |                                     |                                              |                                                |                                                |                                    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| <input type="checkbox"/> Incomplete/Unqualified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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<input type="checkbox"/> Misaligned/off center | <input type="checkbox"/> Misaligned/off center |                                             |                                        |                                       |                                              |                                   |                                           |                                                 |                                              |                                             |                                           |                                                          |                                        |                                                |                                                |                                             |                                     |                                              |                                                |                                                |                                                |                                        |                                   |                                  |



## 4.0 WEIGHT AND BALANCE

The following is the net weight increase associated with the Heli-Utility-Basket™ kits.

| Installation                                                                                                                       | Weight            | LATERAL                 |                               | LONGITUDINAL       |                           |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------|-------------------------------|--------------------|---------------------------|
|                                                                                                                                    |                   | Arm                     | Moment                        | Arm                | Moment                    |
| D117-1044-011/-012<br>(Heli-Utility-Basket™, LH/RH Install)                                                                        | 134 lb<br>60.8 kg | +/-40.5 in<br>+/-1.03 m | +/-5427 in-lb<br>+/-62.6 m-kg | 167 in<br>4.24 m   | 22378 in-lb<br>257.8 m-kg |
| D117-1044-111<br>(Crosstube Adapter Kit, Install)                                                                                  | 3.5 lb<br>1.6 kg  | 0.0 in<br>0.0 m         | 0.0 in-lb<br>0.0 m-kg         | 165.5 in<br>4.20 m | 579 in-lb<br>6.7 m-kg     |
| D117-1044-113/-114<br>(QR Basket Mounting Provision Kit,<br>LH/RH Install, includes D117-1044-<br>111 Crosstube Adapter kit above) | 56 lb<br>25.4 kg  | +/-14.7 in<br>+/-37 m   | +/-823 in-lb<br>+/-9.4 m-kg   | 167 in<br>4.24 m   | 9352 in-lb<br>107.7 m-kg  |

## 5.0 PARTS LIST

| Qty<br>-011 | Qty<br>-012 | Qty<br>-013 | Qty<br>-111 | Qty<br>-113 | Qty<br>-114 | Part Number   | Description                          |
|-------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------------------------------|
| X           |             |             |             |             |             | D117-1044-011 | HELI-UTILITY-BASKET, LH              |
|             | X           |             |             |             |             | D117-1044-012 | HELI-UTILITY-BASKET, RH              |
|             |             | X           |             |             |             | D117-1044-013 | PROP ARM KIT (OPTIONAL)              |
|             |             |             | X           | 1           | 1           | D117-1044-111 | CROSSTUBE ADAPTER KIT                |
| 1           |             |             |             | X           |             | D117-1044-113 | QR BASKET MOUNTING PROVISION KIT, LH |
|             | 1           |             |             |             | X           | D117-1044-114 | QR BASKET MOUNTING PROVISION KIT, RH |
|             |             | 1*          |             |             |             | D2332-041     | PROP ASSEMBLY (OPTIONAL)             |
| 1           |             |             |             |             |             | D5067-011     | BASKET ASSEMBLY, HEAVY DUTY, LH      |
|             | 1           |             |             |             |             | D5067-012     | BASKET ASSEMBLY, HEAVY DUTY, RH      |
|             |             |             | 4           |             |             | D5069-1       | HARDPOINT ADAPTER                    |
| 1           | 1           |             |             |             |             | D5203-043     | STRUT ASSEMBLY                       |
|             |             |             |             | 1           |             | D5549-011     | FWD BEAM ASSEMBLY, LH                |
|             |             |             |             |             | 1           | D5549-012     | FWD BEAM ASSEMBLY, RH                |
|             |             |             |             | 1           |             | D5549-013     | AFT BEAM ASSEMBLY, LH                |
|             |             |             |             |             | 1           | D5549-014     | AFT BEAM ASSEMBLY, RH                |
|             |             |             | 1           |             |             | D5612-041     | ADAPTER WRENCH                       |
|             |             |             | 4           |             |             | DIN65270-12D  | NUT 138588                           |
|             |             |             | 4           |             |             | EN2367-23025  | PIN, COTTER 138553                   |
|             |             | 2*          |             |             |             | MS24665-300   | COTTER PIN                           |

\* D2332-041 PROP ASSEMBLY & HARDWARE (OPTIONAL) TO REPLACE D3969-3 GAS SPRING